CLAIMS

We claim:

1   1.   A digital camera, comprising:

2   a photoelement array for acquiring image data;

3   a memory for saving said image data;

4   a processor in communication with said memory;

5   a display in communication with said processor for exhibiting said image data;

6   and

7   program code stored in said memory and executed by said processor for

8   manipulating said image data, said program code comprising an error

9   utility software module for providing a user with information on

10   incorrectly operating said digital camera.

1   2.   The digital camera of claim 1, wherein said program code further

2   comprises:

3   an error utility software module for providing the user with information on

4   correctly operating said digital camera.

1   3.   The digital camera of claim 1, wherein said program code further

2   comprises:

3   a first code segment for displaying text on said display.

1   4.   The digital camera of claim 3, wherein said program code further

2   comprises:

3   a second code segment for displaying an animation on said display.

1   5.   The digital camera of claim 1, further comprising:

2   means for communicating image data with a remote device.

1   6.   A digital camera, comprising:

2   capturing means for acquiring image data;

3   storage means for saving said image data;

4   processing means in communication with said storage means;

5   display means in communication with said processing means for exhibiting

6   said image data; and

7   program means stored in said storage means and executed by said processing

8   means for manipulating said image data, said program means

9   comprising an error utility software module for providing a user with

10   information on incorrectly and correctly operating said digital camera.

1   7.   The digital camera of claim 6, wherein said program means further

2   comprises:

3   a dialog module for displaying information on a plurality of operational errors

4   and correct method of operation on said display and processing any

5   user selection for more information.

1   8.   The digital camera of claim 6, wherein said error utility module

2   comprises:

3   a first code segment for displaying text on said display.

1   9.   The digital camera of claim 6, further comprising:

2   means for communicating image data with a remote device.

1   10.   The digital camera of claim 6, wherein said error utility module

2   comprises:

3   a second code segment for displaying an animation on said display.

1   11.   The digital camera of claim 6, wherein said program means further

2   comprises a dialog module for displaying information on a plurality of operational

3   errors and correct method of operation on said display and said error utility software

4   module comprises:

5   a first code segment for displaying text correlated with at least one of said

6   operational errors on said display;

7   a second code segment for displaying an animation correlated with at least one

8   of said operational errors on said display; and

9   a third code segment for scrolling said display to communicate a plurality of

10   screens of information to the user.

1   12.   The digital camera of claim 11, further comprising:

2   a fourth code segment for providing an icon representative of a user interface

3   on said digital camera for scrolling between screens of information on

4   said display.

1   13.   The digital camera of claim 11, wherein said icon comprises:

2   a pair of opposing arrows with each arrow uniquely representing a logical

3   scroll direction.

1   14.   A method for providing error information to a user of a digital camera

2   having a built-in display, comprising the steps of:

3   processing a user execution of an erroneous operation performed by the user of

4   the digital camera; and

5   displaying a textual dialog containing operational error information and

6   method of correct operation information that is correlated with said

7   erroneous operation executed by the user of the digital camera.

1   15.   The method of claim 14, further comprising the step of:

2   scrolling said display to communicate a plurality of screens of information in

3   response to a logical scroll direction entered by the user.

1   16.   The method of claim 15, further comprising the step of:

2   providing an icon representative of a user interface on said digital camera for

3   scrolling between screens of information on said display.

1   17.   The method of claim 16, wherein said icon comprises a pair of

2   opposing arrows with each arrow representing a unique said logical scroll direction

3   and further comprising the step of:

4   emphasizing one of said arrows representing a correct logical scroll direction

5   in response to an invalid scroll direction entered by the user.

1   18.   The method of claim 17, wherein said arrow representing said correct

2   logical scroll direction is emphasized through blinking.

1   19.   A method for providing error information to a user of a digital camera

2   having a built-in display, comprising the steps of:

3   processing a user execution of an erroneous operation performed by the user of

4   the digital camera; and

5   displaying an animated sequence conveying operational error information and

6   method of correct operation information that is correlated with said

7   erroneous operation executed by the user of the digital camera.

1   20.   The method of claim 19, wherein said animation plays when scrolled

2   onto said display.

1   21.   The method of claim 20, wherein said animation replays after

2   completion when scrolled off said display and onto said display again.

1   22.   The method of claim 19, further comprising the step of:

2   communicating image data with a remote device.

1   23.   A computer readable medium having a program for manipulating

2   image data acquired by a digital camera, said program code comprising:

3   logic configured to recognize erroneous operation of said digital camera; and

4   logic configured for displaying a textual dialog containing operational error

5   information and method of correct operation information that is

6   correlated with said erroneous operation executed by the user of the

7   digital camera.

1   24.   The computer readable medium of claim 23, further comprising:

2   logic configured for scrolling said display to communicate a plurality of

3   screens of information in response to a logical scroll direction entered

4   by the user.

1   25.   The computer readable medium of claim 23, further comprising:

2   logic configured for providing an icon representative of a user interface on said

3   digital camera for scrolling between screens of information on said

4   display.

1   26.   The computer readable medium of claim 23, further comprising:

2   logic configured for communicating image data to a remote device.

1   27.   A computer readable medium having a program for manipulating

2   image data acquired by a digital camera, said program code comprising:

3   logic configured to recognize erroneous operation of said digital camera; and

4   logic configured for displaying an animated sequence containing operational

5   error information and method of correct operation information that is

6   correlated with said erroneous operation executed by the user of the

7   digital camera.

1   28.   A digital camera, comprising:

2   processing means for processing a user execution of an erroneous operation of

3   the digital camera; and

4   display means for displaying a textual dialog containing operational error

5   information and method of correct operation information that is

6   correlated with an erroneous operation executed by a user of the digital

7   camera.